

STIC Search Report Biotech-Chem Library

STIC Database Tracking Number: 121775

TO: David Lukton

Location: REM-3B75&3C70

Art Unit: 1653

Wednesday, May 12, 2004

Case Serial Number: 09/581397

From: Mary Jane Ruhl

Location: Biotech-Chem Library

Remsen 1-B55

Phone: 571-272-2524

maryjane.ruhl@uspto.gov

Search Notes

Examiner Lukton,

Here are the results for your recent search request.

Please feel free to contact me if you have any questions about these results.

Thank you for using STIC services. We appreciate the opportunity to serve you.

Sincerely,

Mary Jane Ruhl Technical Information Specialist STIC CM-1, Rm. 6-A-06 605-1155





CTIC SEARCH RESILIT

FEEDBACK FORM

Biotech-Chem Library

Questions about the scope or the results of the search? Contact the searcher or contact:

Mary Hale, Information Branch Supervisor 308-4258, CM1-1E01

Voluntary Results Feedback Form
> I am an examiner in Workgroup: Example: 1610
> Relevant prior art found, search results used as follows:
☐ 102 rejection
☐ 103 rejection
☐ Cited as being of interest.
Helped examiner better understand the invention.
Helped examiner better understand the state of the art in their technology.
Types of relevant prior art found:
☐ Foreign Patent(s)
Non-Patent Literature (journal articles, conference proceedings, new product announcements etc.)
> Relevant prior art not found:
Results verified the lack of relevant prior art (helped determine patentability).
Results were not useful in determining patentability or understanding the invention.
Comments:

Propositor sand complated forms to STEB to tent Cham Library CM i — Circ. Desk



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Lb & 185/60

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L8

(FILE 'HOME' ENTERED AT 11:12:35 ON 12 MAY 2004)

FILE 'REGISTRY' ENTERED AT 11:12:46 ON 12 MAY 2004 STR

L1 STR
L2 0 SEA SSS SAM L1
L3 1 SEA SSS FUL L1
L4 STR L1

1 SEA SSS SAM L4

1 SEA SSS FUL L4
1 SEA ABB=ON L3 OR L6 Comple from Reg, - see done state

FILE 'HCAPLUS' ENTERED AT 11:23:05 ON 12 MAY 2004 2 SEA ABB=ON L7

FILE 'CAOLD' ENTERED AT 11:23:33 ON 12 MAY 2004 L9 0 SEA ABB=ON L7

FILE 'HCAPLUS' ENTERED AT 11:23:42 ON 12 MAY 2004
D IBIB ABS HITSTR L8 1-2
SELECT RN L8 1-2

FILE 'REGISTRY' ENTERED AT 11:24:58 ON 12 MAY 2004

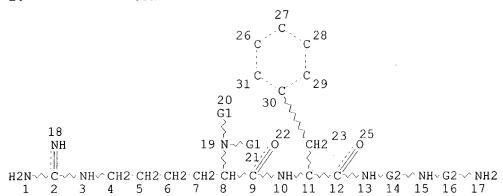
L10

24 SEA ABB=ON (110-60-1/BI OR 134951-15-8/BI OR 156-87-6/BI OR 191277-14-2/BI OR 227758-28-3/BI OR 227758-32-9/BI OR 227758-33-0/BI OR 227758-34-1/BI OR 227758-35-2/BI OR 227758-36-3/BI OR 227758-37-4/BI OR 11062-77-4/BI OR 19059-14-4/BI OR 191277-15-3

/BI OR 222640-12-2/BI OR 227758-27-2/BI OR 227758-29-4/BI OR 227758-30-7/BI OR 227758-31-8/BI OR 227758-40-9/BI OR 227758-41-0/BI OR 227767-50-2/BI OR 446882-39-9/BI OR 577692-72-9/BI)

FILE 'HCAPLUS' ENTERED AT 11:36:35 ON 12 MAY 2004
L11 2 SEA ABB=ON L8 AND L10 2 Cells from CAPlus -

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=> d que stat l11
L4 STR
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VAR G1=H/C/O REP G2=(3-4) CH2 NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 30

STEREO ATTRIBUTES: NONE

L5	0 SEA FILE=REGISTRY SSS SAM L4
L6	1 SEA FILE=REGISTRY SSS FUL L4
L7	1 SEA FILE=REGISTRY ABB=ON L5 OR L6
L8	2 SEA FILE=HCAPLUS ABB=ON L7
L10	24 SEA FILE=REGISTRY ABB=ON (110-60-1/BI OR 134951-15-8/BI OR
	156-87-6/BI OR 191277-14-2/BI OR 227758-28-3/BI OR 227758-32-9/
	BI OR 227758-33-0/BI OR 227758-34-1/BI OR 227758-35-2/BI OR
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	227758-29-4/BI OR 227758-30-7/BI OR 227758-31-8/BI OR 227758-40
	-9/BI OR 227758-41-0/BI OR 227767-50-2/BI OR 446882-39-9/BI OR

577692-72**-**9/BI)

L11 2 SEA FILE=HCAPLUS ABB=ON L8 AND L10

=> d ibib abs hitstr 111 1-2

L11 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2003:633453 HCAPLUS

DOCUMENT NUMBER:

139:159957

TITLE:

Spermidine derivatives for the treatment of chronic

neurodegenerative diseases

INVENTOR(S):

Morrison, Barclay, III; Pringle, Ashley Ker;

Sundstrom, Lars Eric; Wulfert, Ernst

PATENT ASSIGNEE(S):

University of Southampton, UK

SOURCE:

PCT Int. Appl., 52 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

				KIND DATE				APPLICATION NO. DATE									
				A1 20030814				WO 2003-GB507 20030205									
	W:	ΑE,	AG,	AL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,
		co,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KΡ,	KR,	ΚZ,	LC,	LK,	LR,
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AB	Spermid	• •								0 110	∿£ul	in	- 200	tina	ahr	onia	
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neurodegenerative diseases or conditions in mammals, e.g. Alzheimer's disease, Parkinson's disease, Huntington's chorea and multiple sclerosis.																	
T m		•					•		_				ia m	urcij	рте :	3CTE	rosis.
IT 11062-77-4, Superoxide 19059-14-4, Peroxynitrite																	
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study) (spermidine derivs. for treatment of chronic neurodegenerative																	
	(spe	rmid	ine (deri	vs.	tor :	treat	tmen	t of	chr	onic	neu:	rode	gene:	rati	≀e	

diseases) 11062-77-4 HCAPLUS RN

Superoxide (8CI, 9CI) (CA INDEX NAME) CN

0 = 0

RN 19059-14-4 HCAPLUS

CN Peroxynitrite (8CI, 9CI) (CA INDEX NAME)

O== N- O- O-

577692-72-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

1

(spermidine derivs. for treatment of chronic neurodegenerative diseases)

RN 577692-72-9 HCAPLUS

CN Pentanamide, 2-amino-N-[3-[(4-aminobutyl)amino]propyl]-5[(aminoiminomethyl)amino]-, (2S)-, trifluoroacetate (9CI) (CA INDEX NAME)

CM 1

CRN 191277-14-2 CMF C13 H31 N7 O

Absolute stereochemistry.

$$H_2N$$
 $(CH_2)_4$
 N
 H
 $(CH_2)_3$
 N
 H
 NH_2
 NH_2

CM 2

CRN 76-05-1 CMF C2 H F3 O2

IT 134951-15-8 191277-14-2 227758-28-3 227758-30-7 227758-32-9 227758-33-0 227758-34-1 227758-35-2 227758-36-3

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
(Biological study); USES (Uses)
 (spermidine derivs. for treatment of chronic neurodegenerative diseases)

RN 134951-15-8 HCAPLUS

CN Hexanamide, 2,6-diamino-N-[3-[(4-aminobutyl)amino]propyl]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 191277-14-2 HCAPLUS

CN Pentanamide, 2-amino-N-[3-[(4-aminobutyl)amino]propyl]-5-[(aminoiminomethyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

$$H_2N$$
 $(CH_2)_4$
 N
 H
 $(CH_2)_3$
 N
 H
 $(CH_2)_3$
 N
 H
 NH_2

RN

227758-28-3 HCAPLUS
Pentanamide, 2,5-diamino-N-[3-[(4-aminobutyl)amino]propyl]-, (2S)- (9CI) CN (CA INDEX NAME)

Absolute stereochemistry.

227758-30-7 HCAPLUS RN

L-Phenylalaninamide, L-arginyl-N-[3-[(4-aminobutyl)amino]propyl]- (9CI) CN (CA INDEX NAME)

Absolute stereochemistry.

$$H_2N$$
 NH
 $CH_2)_3$
 S
 NH_2
 NH_2

227758-32-9 HCAPLUS RN

L-Phenylalaninamide, N6-(aminoiminomethyl)-L-lysyl-N-[3-[(4-CN aminobutyl)amino]propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$H_2N$$
 NH
 H_2N
 NH
 H
 $CH_2)_4$
 S
 NH_2
 O
 H
 $CH_2)_3$
 H
 $CH_2)_4$
 NH_2

227758-33-0 HCAPLUS RN

L-Tyrosinamide, L-arginyl-N-[3-[(4-aminobutyl)amino]propyl]- (9CI) CN INDEX NAME)

RN 227758-34-1 HCAPLUS

CN L-Tryptophanamide, L-arginyl-N-[3-[(4-aminobutyl)amino]propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 227758-35-2 HCAPLUS

CN Glycinamide, L-arginyl-N-[3-[(4-aminobutyl)amino]propyl]-2-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$H_2N$$
 NH
 $(CH_2)_3$
 S
 NH
 H
 $(CH_2)_4$
 NH_2
 $(CH_2)_4$
 $(CH_2)_4$
 $(CH_2)_4$
 $(CH_2)_4$

RN 227758-36-3 HCAPLUS

CN Pentanamide, 2-amino-N-[3-[(4-aminobutyl)amino]propyl]-5-[(aminocarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

$$H_2N$$
 $(CH_2)_4$
 N
 H
 $(CH_2)_3$
 N
 H
 NH_2

IT 222640-12-2 446882-39-9D, resin-bonded

RL: RCT (Reactant); RACT (Reactant or reagent)

(spermidine derivs. for treatment of chronic neurodegenerative diseases)

222640-12-2 HCAPLUS RN

2-0xa-4,9,11-triazadodecan-12-oic acid, 5-carboxy-11-[(1,1-CN dimethylethoxy)carbonyl]-1-(9H-fluoren-9-yl)-10-imino-3-oxo-, 12-(1,1-dimethylethyl) ester, (5S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

446882-39-9 HCAPLUS RN

CN 1,3-Cyclohexanedione, 2-[1-[[3-[[4-[[(4-methoxyphenyl)diphenylmethyl]amino [butyl]amino]propyl]amino]ethylidene]-5,5-dimethyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

5

ACCESSION NUMBER:

1999:404918 HCAPLUS

DOCUMENT NUMBER:

131:59135

TITLE:

Preparation of amino acid derivatives as

neuroprotective agents

INVENTOR(S):

Pringle, Ashley Ker; Bradley, Mark; Sundstrom, Lars

Eric; Iannotti, Fausto

PATENT ASSIGNEE(S):

University of Southampton, UK

PCT Int. Appl., 53 pp. SOURCE: CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

KIND DATE

APPLICATION NO. DATE

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WO 9931049
                        A1 19990624
                                               WO 1998-GB3775
                                                                  19981216
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              DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU,
              TJ, TM
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                               20030709
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                                               NZ 1998-505110
                                                                  19981216
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     PT 1040096
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                               20011004
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          RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
              PT, SE
     EP 1144434
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                                               EP 1999-936759
                                                                 19990616
     EP 1144434
                         A3
                              20020529
                      CH, DE, DK, ES, FR, GB, IT, LI, NL, SE, IE
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                              20000815
                                              NO 2000-3075
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     HK 1029331
                         A1
                              20031003
                                              HK 2000-108125
                                                                 20001215
PRIORITY APPLN. INFO.:
                                           GB 1997-26569
                                                             A 19971216
                                           WO 1998-GB3775
                                                                 19981216
                                           WO 1999-GB1719
                                                              W 19990616
OTHER SOURCE(S):
                           MARPAT 131:59135
     Amino acid derivs. Q-Ra-C*H(NR2R3)CO-Zn-NR1-Rb-NH-Rc-NH-W [Q = amidino,
     cyano, or amino group; Ra, Rb, Rc = (un) substituted alkylene, alkenylene;
     R2, R3 = H, R, RCO, RO2C, RNHCO (R = (un) substituted alkyl or aryl); the
     chiral atom indicated by the asterisk is in the L configuration; Z is an
     amino acid residue; n = 0, 1; R1 = H, (un) substituted alkyl or aryl; W = H
     H, alkyl, aryl] were prepared as neuroprotectants. Thus,
     N1-L-arginylspermidine, prepared by coupling of resin-bound spermidine
     derivative with protected arginine, followed by deprotection/cleavage using
     TFA-phenol-water-triisopropylsilane-1,2-ethanedithiol, showed 99.4 §
     protection (relative to control hypoxia in CA1 pyramidal cell layer).
ΙT
     134951-15-8P 191277-14-2P 191277-15-3P
     227758-27-2P 227758-28-3P 227758-29-4P
     227758-31-8P 227758-32-9P 227758-33-0P
     227758-34-1P 227758-35-2P 227758-36-3P
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES (Uses)
         (preparation of amino acid derivs. as neuroprotective agents)
RN
     134951-15-8 HCAPLUS
     Hexanamide, 2,6-diamino-N-[3-[(4-aminobutyl)amino]propyl]-, (2S)- (9CI)
CN
     (CA INDEX NAME)
```

Absolute stereochemistry.

RN 191277-14-2 HCAPLUS

CN Pentanamide, 2-amino-N-[3-[(4-aminobutyl)amino]propyl]-5-[(aminoiminomethyl)amino]-, (2S)- (9CI) (CA INDEX NÁME)

Absolute stereochemistry.

$$H_2N$$
 $(CH_2)_4$
 N
 H
 $(CH_2)_3$
 N
 H
 NH_2
 NH_2

RN 191277-15-3 HCAPLUS

CN Pentanamide, 2-amino-N-[3-[(4-aminobutyl)amino]propyl]-5-[(aminoiminomethyl)amino]-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 227758-27-2 HCAPLUS

CN Hexanamide, 2,6-diamino-N-[3-[(4-aminobutyl)amino]propyl]-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$H_2N$$
 $(CH_2)_4$
 R
 N
 H
 $(CH_2)_3$
 N
 H
 NH_2

RN 227758-28-3 HCAPLUS

CN Pentanamide, 2,5-diamino-N-[3-[(4-aminobutyl)amino]propyl]-, (2S)- (9CI) (CA INDEX NAME)

$$_{\text{H}_{2}\text{N}}$$
 (CH₂)₃ $_{\text{N}}$ (CH₂)₃ $_{\text{H}}$ (CH₂)₄ $_{\text{NH}_{2}}$

RN 227758-29-4 HCAPLUS

CN Pentanamide, 2,5-diamino-N-[3-[(4-aminobutyl)amino]propyl]-, (2R)- (9CI)
 (CA INDEX NAME)

Absolute stereochemistry.

$$(CH_2)_3$$
 $(CH_2)_3$ $(CH_2)_4$ $(CH_2)_4$

RN 227758-31-8 HCAPLUS

CN L-Phenylalaninamide, L-arginyl-N-[3-[(4-aminobutyl)amino]propyl]-, tetrakis(trifluoroacetate) (9CI) (CA INDEX NAME)

CM 1

CRN 227758-30-7 CMF C22 H40 N8 O2

Absolute stereochemistry.

CM 2

CRN 76-05-1 CMF C2 H F3 O2

RN 227758-32-9 HCAPLUS

CN L-Phenylalaninamide, N6-(aminoiminomethyl)-L-lysyl-N-[3-[(4-aminobutyl)amino]propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$H_2N$$
 NH
 $(CH_2)_4$
 S
 NH_2
 $(CH_2)_3$
 $(CH_2)_4$
 NH_2
 $(CH_2)_4$
 $(CH_2)_4$

RN 227758-33-0 HCAPLUS

CN L-Tyrosinamide, L-arginyl-N-[3-[(4-aminobutyl)amino]propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 227758-34-1 HCAPLUS

CN L-Tryptophanamide, L-arginyl-N-[3-[(4-aminobutyl)amino]propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 227758-35-2 HCAPLUS

CN Glycinamide, L-arginyl-N-[3-[(4-aminobutyl)amino]propyl]-2-phenyl- (9CI) (CA INDEX NAME)

RN 227758-36-3 HCAPLUS

CN Pentanamide, 2-amino-N-[3-[(4-aminobutyl)amino]propyl]-5-[(aminocarbonyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 227758-40-9 227758-41-0 227767-50-2

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES

(preparation of amino acid derivs. as neuroprotective agents)

227758-40-9 HCAPLUS RN

CN Pentanediamide, 2-amino-N1-[3-[(4-aminobutyl)amino]propyl]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$H_2N$$
 S
 N
 H
 $CH_2)_3$
 N
 H
 NH_2

RN

227758-41-0 HCAPLUS
Pentanamide, 2-amino-N-[4-[(4-aminobutyl)amino]butyl]-5-CN [(aminoiminomethyl)amino]-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

$$H_2N$$
 $(CH_2)_4$
 N
 H
 $(CH_2)_4$
 N
 H
 $(CH_2)_4$
 N
 H
 NH_2

RN 227767-50-2 HCAPLUS

Pyridinepropanamide, α -amino-N-[3-[(4-aminobutyl)amino]propyl]-CN (9CI) (CA INDEX NAME)



 $\begin{array}{c|c} & \text{O} & \text{NH}_2 \\ \parallel & \parallel & \parallel \\ \text{H}_2\text{N--} & \text{(CH}_2)_4 - \text{NH} - & \text{(CH}_2)_3 - \text{NH} - & \text{C--} & \text{CH} - & \text{CH}_2 - & \text{D1} \end{array}$

RN 110-60-1 HCAPLUS

CN 1,4-Butanediamine (8CI, 9CI) (CA INDEX NAME)

 $H_2N-(CH_2)_4-NH_2$

RN 156-87-6 HCAPLUS

CN 1-Propanol, 3-amino- (8CI, 9CI) (CA INDEX NAME)

 $\text{H}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{CH}_2-\text{OH}$

RN 227758-37-4 HCAPLUS

CN 13-0xa-2,6,11-triazapentadecanoic acid, 6-[2-amino-1-[4-[(benzoyloxy)carbonyl]phenoxy]-2-oxoethyl]-14,14-dimethyl-12-oxo-,9H-fluoren-9-ylmethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

REFERENCE COUNT:

THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT